

1/14

SEQUENCE LISTING

<110> SENOMYX, INC.

<120> IMPROVED ELECTROPHYSIOLOGICAL ASSAYS USING OOCYTES THAT
EXPRESS HUMAN ENaC AND THE USE OF PHENAMIL TO IMPROVE
THE EFFECT OF ENaC ENHANCERS IN ASSAYS USING MEMBRANE
POTENTIAL REPORTING DYES

<130> 54315PCT

<140> PCT/US04/021853

<141> 2004-07-09

<150> 60/485,745

<151> 2003-07-10

<150> 60/287,413

<151> 2001-05-01

<150> 10/133,573

<151> 2002-04-29

<160> 14

<170> PatentIn Ver. 3.2

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<211> 2010

<212> DNA

<213> Homo sapiens

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Ile Glu Phe His Arg Ser Tyr Arg Glu Leu Phe Glu Phe Phe Cys Asn
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Asn Thr Thr Ile His Gly Ala Ile Arg Leu Val Cys Ser Gln His Asn
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Ala Val Thr Ile Cys Thr Leu Asn Pro Tyr Arg Tyr Pro Glu Ile Lys
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Glu Glu Leu Glu Glu Leu Asp Arg Ile Thr Glu Gln Thr Leu Phe Asp
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Leu Tyr Lys Tyr Ser Ser Phe Thr Thr Leu Val Ala Gly Ser Arg Ser
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Val Pro Pro Pro Pro His Gly Ala Arg Arg Ala Arg Ser Val Ala Ser
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Cys Tyr Thr Phe Asn Asp Lys Asn Asn Ser Asn Leu Trp Met Ser Ser
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<213> Homo sapiens

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Trp Gln Trp Gly Ile Phe Ile Arg Thr Tyr Leu Ser Trp Glu Val Ser
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Val Ser Leu Ser Val Gly Phe Lys Thr Met Asp Phe Pro Ala Val Thr
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Ile Cys Asn Ala Ser Pro Phe Lys Tyr Ser Lys Ile Lys His Leu Leu
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Lys Asp Leu Asp Glu Leu Met Glu Ala Val Leu Glu Arg Ile Leu Ala
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Pro Glu Leu Ser His Ala Asn Ala Thr Arg Asn Leu Asn Phe Ser Ile
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Trp Asn His Thr Pro Leu Val Leu Ile Asp Glu Arg Asn Pro His His
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Pro Met Val Leu Asp Leu Phe Gly Asp Asn His Asn Gly Leu Thr Ser
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Ser Ser Ala Ser Glu Lys Ile Cys Asn Ala His Gly Cys Lys Met Ala
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Met Arg Leu Cys Ser Leu Asn Arg Thr Gln Cys Thr Phe Arg Asn Phe
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Thr Ser Ala Thr Gln Ala Leu Thr Glu Trp Tyr Ile Leu Gln Ala Thr
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Asn Ile Phe Ala Gln Val Pro Gln Gln Glu Leu Val Glu Met Ser Tyr
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Pro Gly Glu Gln Met Ile Leu Ala Cys Leu Phe Gly Ala Glu Pro Cys
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Asn Tyr Arg Asn Phe Thr Ser Ile Phe Tyr Pro His Tyr Gly Asn Cys
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Tyr Ile Phe Asn Trp Gly Met Thr Glu Lys Ala Leu Pro Ser Ala Asn
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 His Glu Gln Arg Ser Tyr Pro Phe Ile Arg Asp Glu Gly Ile Tyr Ala
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 Pro Val Gln Asn Phe Tyr Ser Asp Tyr Asn Thr Thr Tyr Ser Ile Gln
 370 375 380
 Ala Cys Leu Arg Ser Cys Phe Gln Asp His Met Ile Arg Asn Cys Asn
 385 390 395 400
 Cys Gly His Tyr Leu Tyr Pro Leu Pro Arg Gly Glu Lys Tyr Cys Asn
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 Ser Val Ala Gln Arg Glu Thr Cys Ile Gly Met Cys Lys Glu Ser Cys
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 Ile Tyr Phe Gln Glu Phe Asn Tyr Arg Thr Ile Glu Glu Ser Ala Ala
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 Ile Asp Phe Val Trp Ile Thr Ile Ile Lys Leu Val Ala Leu Ala Lys
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Asp Thr Ala Pro Arg Ser Pro Asn Thr Gly Pro Tyr Pro Ser Glu Gln
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Val Ser Val Ser Ile Lys Val His Phe Arg Lys Leu Asp Phe Pro Ala
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Val Thr Ile Cys Asn Ile Asn Pro Tyr Lys Tyr Ser Thr Val Arg His
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Gly Arg Lys Arg Lys Val Gly Gly Ser Ile Ile His Lys Ala Ser Asn
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```

Gly Gly Ser His Leu Gln Ala Ala Ala Gln Thr Pro Pro Arg Pro Gly
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```

```

Pro Pro Ser Ala Pro Pro Pro Pro Pro Lys Glu Gly His Gln Glu Gly
          35                      40                      45

```

```

Leu Val Glu Leu Pro Ala Ser Phe Arg Glu Leu Leu Thr Phe Phe Cys
  50                      55                      60

```

```

Thr Asn Ala Thr Ile His Gly Ala Ile Arg Leu Val Cys Ser Arg Gly
  65                      70                      75                      80

```

```

Asn Arg Leu Lys Thr Thr Ser Trp Gly Leu Leu Ser Leu Gly Ala Leu
          85                      90                      95

```

```

Val Ala Leu Cys Trp Gln Leu Gly Leu Leu Phe Glu Arg His Trp His
          100                      105                      110

```

```

Arg Pro Val Leu Met Ala Val Ser Val His Ser Glu Arg Lys Leu Leu
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```

```

Pro Leu Val Thr Leu Cys Asp Gly Asn Pro Arg Arg Pro Ser Pro Val
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```

Leu Arg His Leu Glu Leu Leu Asp Glu Phe Ala Arg Glu Asn Ile Asp
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```

Ser Leu Tyr Asn Val Asn Leu Ser Lys Gly Arg Ala Ala Leu Ser Ala
          165                      170                      175

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```

Thr Val Pro Arg His Glu Pro Pro Phe His Leu Asp Arg Glu Ile Arg
          180                      185                      190

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Leu Gln Arg Leu Ser His Ser Gly Ser Arg Val Arg Val Gly Phe Arg
          195                      200                      205

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12/14

Leu Cys Asn Ser Thr Gly Gly Asp Cys Phe Tyr Arg Gly Tyr Thr Ser
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Gly Val Ala Ala Val Gln Asp Trp Tyr His Phe His Tyr Val Asp Ile
 225 230 235 240

Leu Ala Leu Leu Pro Ala Ala Trp Glu Asp Ser His Gly Ser Gln Asp
 245 250 255

Gly His Phe Val Leu Ser Cys Ser Tyr Asp Gly Leu Asp Cys Gln Ala
 260 265 270

Arg Gln Phe Arg Thr Phe His His Pro Thr Tyr Gly Ser Cys Tyr Thr
 275 280 285

Val Asp Gly Val Trp Thr Ala Gln Arg Pro Gly Ile Thr His Gly Val
 290 295 300

Gly Leu Val Leu Arg Val Glu Gln Gln Pro His Leu Pro Leu Leu Ser
 305 310 315 320

Thr Leu Ala Gly Ile Arg Val Met Val His Gly Arg Asn His Thr Pro
 325 330 335

Phe Leu Gly His His Ser Phe Ser Val Arg Pro Gly Thr Glu Ala Thr
 340 345 350

Ile Ser Ile Arg Glu Asp Glu Val His Arg Leu Gly Ser Pro Tyr Gly
 355 360 365

His Cys Thr Ala Gly Gly Glu Gly Val Glu Val Glu Leu Leu His Asn
 370 375 380

Thr Ser Tyr Thr Arg Gln Ala Cys Leu Val Ser Cys Phe Gln Gln Leu
 385 390 395 400

Met Val Glu Thr Cys Ser Cys Gly Tyr Tyr Leu His Pro Leu Pro Ala
 405 410 415

Gly Ala Glu Tyr Cys Ser Ser Ala Arg His Pro Ala Trp Gly His Cys
 420 425 430

Phe Tyr Arg Leu Tyr Gln Asp Leu Glu Thr His Arg Leu Pro Cys Thr
 435 440 445

Ser Arg Cys Pro Arg Pro Cys Arg Glu Ser Ala Phe Lys Leu Ser Thr
 450 455 460

Gly Thr Ser Arg Trp Pro Ser Ala Lys Ser Ala Gly Trp Thr Leu Ala
 465 470 475 480

Thr Leu Gly Glu Gln Gly Leu Pro His Gln Ser His Arg Gln Arg Ser
 485 490 495

Ser Leu Ala Lys Ile Asn Ile Val Tyr Gln Glu Leu Asn Tyr Arg Ser
 500 505 510

Val Glu Glu Ala Pro Val Tyr Ser Val Pro Gln Leu Leu Ser Ala Met
 515 520 525

Gly Ser Leu Tyr Ser Leu Trp Phe Gly Ala Ser Val Leu Ser Leu Leu
 530 535 540

Glu Leu Leu Glu Leu Leu Leu Asp Ala Ser Ala Leu Thr Leu Val Leu
 545 550 555 560

Gly Gly Arg Arg Leu Arg Arg Ala Trp Phe Ser Trp Pro Arg Ala Ser
 565 570 575

Pro Ala Ser Gly Ala Ser Ser Ile Lys Pro Glu Ala Ser Gln Met Pro
 580 585 590

Pro Pro Ala Gly Gly Thr Ser Asp Asp Pro Glu Pro Ser Gly Pro His
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Leu Pro Arg Val Met Leu Pro Gly Val Leu Ala Gly Val Ser Ala Glu
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Glu Ser Trp Ala Gly Pro Gln Pro Leu Glu Thr Leu Asp Thr
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<210> 13

<211> 28

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic primer

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<210> 14

<211> 30

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic primer

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